



Blended Learning Situations, Solutions, and Several Stunning Surprises

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What I will discuss...

1. Definitions of blended learning
2. Advantages and disadvantages
3. Models of blended learning
4. Examples of blended learning
5. Implications for blended learning



Part 1. Handbook of Blended Learning (HOBLe)


- University of Phoenix, Capella University, JIU, National University
- Microsoft, IBM, Sun, Cisco, Macromedia, Oracle, WebCT
- The World Bank, the DOD in USA
- In Canada: York University and the University of Calgary
- Other universities in Japan, Korea, Malaysia, Singapore, China, NZ, South Africa, Israel, Mexico, Australia, Wales, England, USA



Blended Learning: Two Parts

1. Models and Frameworks
2. Problems and Solutions (i.e., examples)

(When do blends make sense?)



Who is demanding fully online and blended learning?



Campus Technology, February 2010, Expectations Rising

Expectations Rising

The importance students place on campus technology is on the increase, according to a recent study.

Technology Area	Percentage of students who rate that technology as "extremely important"
COURSE MANAGEMENT SYSTEMS	31%
COMPUTER LABS	48%
WIRELESS NETWORKS	76%

Source: SurveyShare, Inc. © 2010


Campus Technology, February 2010, David Raths, Winning them Over

Resources

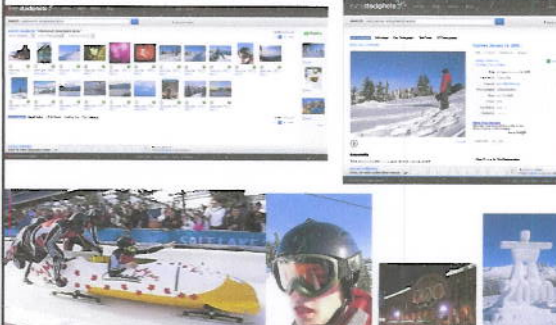
- CastroDync (enhanced captioning) www.castrodync.com
- Creative Commons [www.creativecommons.org/licenses/by/3.0/](http://creativecommons.org/licenses/by/3.0/)
- EdTech360 www.edtech360.com
- Garbarino www.garbarino.com
- LetDown www.letdown.com.au
- Mediacore www.mediacore.com
- CastroDync (enhanced captioning) www.castrodync.com
- TopTix Campus www.topix.com
- University of Massachusetts Lowell study on impact of lecture capture www.umasslowell.edu/~education/umasslowellstudy.htm
- University of Wisconsin-Madison survey of attitudes on lecture capture www.wisc.edu/~england/LectureCaptureSurvey.pdf

SHARING CONTENT


REARTE PRODUCE UNIVERSITY's Center of Instructional Technology Services their video production for the Faculty to use in their own classrooms, which will also allow them to create their own content for the public to share and learn from. And when content is shared online, it's not just the content that is shared, but the way it is shared. When a video is shared online, it's not just the content that is shared, but the way it is shared. When a video is shared online, it's not just the content that is shared, but the way it is shared.



Everystockphoto.com (courses on the Winter Olympics, photography, motivation, geography, Canadian culture, meteorology, physics, etc.) <http://everystockphoto.com/photo.php?imageid=571578>




Blended Learning Defined and Explained



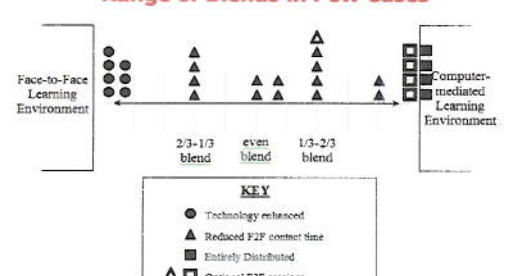
Myth #1: People will know what I am saying when I say "blended learning."
Myth #2: Blended is the same as "hybrid."

The Sloan Consortium

Proportion of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings.
80+%	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.



Myth #3: Knowing "how much" to blend is vital.
Range of Blends in Pew Cases



KEY


- Technology enhanced
- ▲ Reduced F2F contact time
- Entirely Distributed
- ◊ Optional F2F sessions

Source: Graham, C. R., & Allen, S. (2006). Blended learning: An emerging trend in education. In C. Howard & J. V. Boettcher & L. Justice & K. D. Schenk & P. L. Rogers & G. A. Berg (Eds.), *Encyclopedia of Distance Learning* (pp. 172-179). Hershey, PA: Idea Group Inc.

Myths #4: Blended learning is easy to define.
Myth #5: Blended learning is hard to define.

Blending Online and F2F Instruction

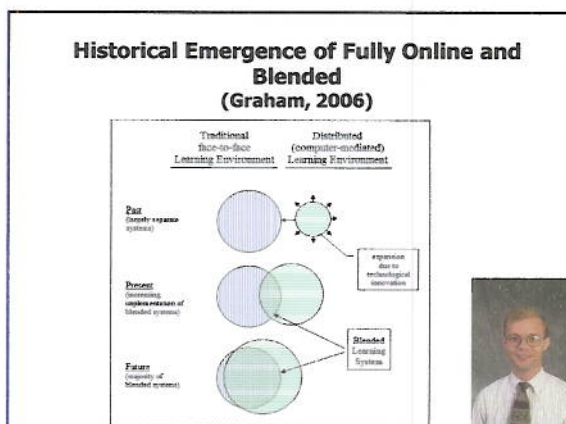
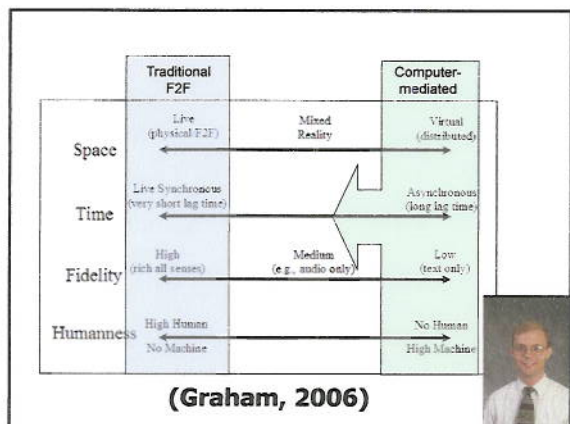
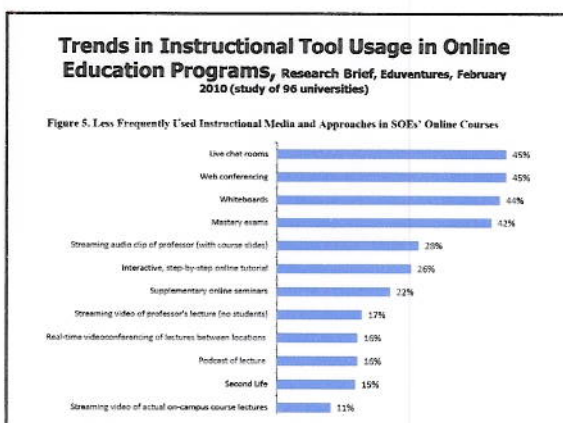
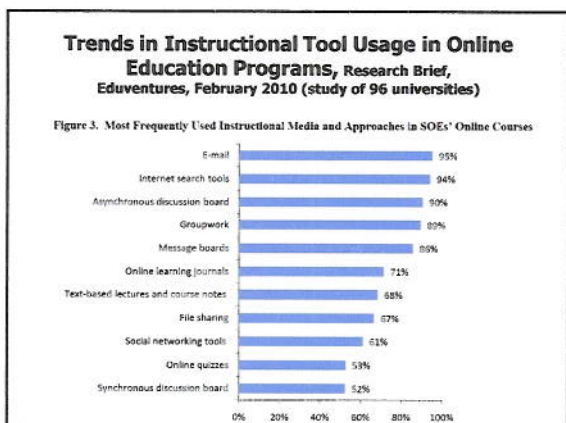
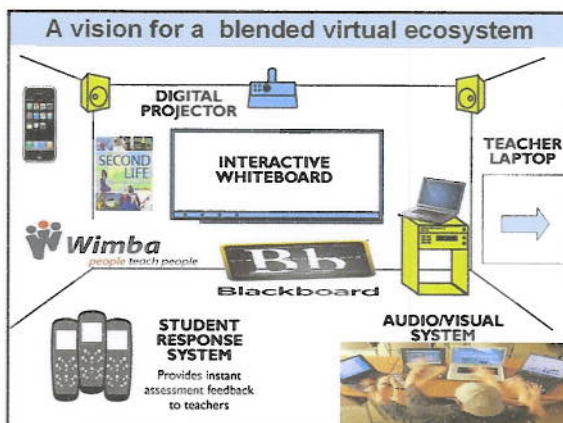
- "Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)



Trying to Define it is a Trap!!!

A Rebel From Another Galaxy, March 14, 2010
By Andrea Fuller

IT'S A TRAP



Myth #6: Blended learning works everywhere.
Where is Blended Beneficial?

- Large Classes (spanish, intro psych, algebra, elementary statistics, biology)
- Classes with working students
- Students spread over a distance
- Classes with certification
- Classes with need for standardization
- New requirements for a profession
- Writing intensive classes
- Theory classes



Examples of Blended Learning, Margaret Driscoll, e-Learning, March 2002

- Put assessments/reviews online
- Follow-up in community of practice
- Put reference materials on Web
- Deliver pre-work online
- Provide office hours online
- Use mentoring/coaching tool
- Access experts live online
- Use e-mail and instant messaging

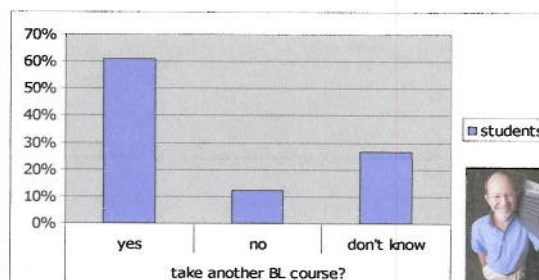


Fully Online and Blended Learning Advantages

1. Increased Learning (better papers, higher scores)
2. More effective pedagogy and interaction
3. Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
4. Reduction in physical class or space needs, commuting, parking
5. Increased opportunities for human interaction, communication, & contact among students
6. Introverts participate more



Student Satisfaction in Canada for Blended Learning (Owston, Garrison, & Cook 2006)



Myth #7: People learn more in face-to-face settings than blended or fully online ones.

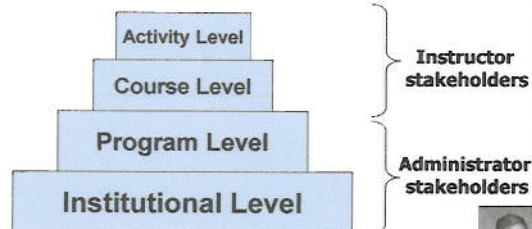
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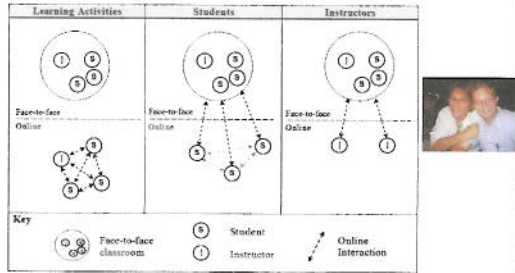


Myth #8: Faculty can have a logical discussion with administrators about blended learning.

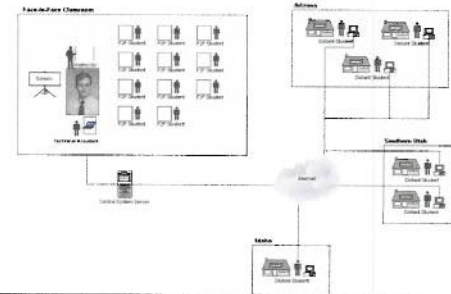
Models of Blending
 Blending occurs at the following four levels:



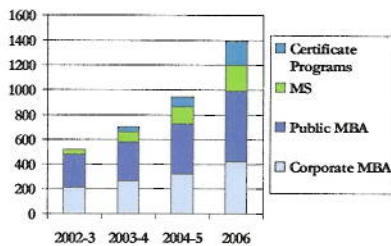
1. Activity- and Course-Level Blends Blended learning systems: Definitions and directions (Osguthorpe & Graham, 2003)



2. Course-Level Blend: Using CMS to blend distance and F2F learners (Rogers, Graham, et al., 2003)



3. Program-level blending (blend same for all participants) Kelley Direct Online MBA (IU)



4. The Open U Malaysia (from Abtar Kaur)

- Started August 2001 : approx. 800 students
- Total students (2005): approx. 33,000
- Total students (2010): over 85,000
- Total full-time academic staff : 60
- Total part-time academic staff (tutors): approx 3,000
- 33 Learning Centres (7 Regional Centres)
- Pedagogical approach: Blended Learning



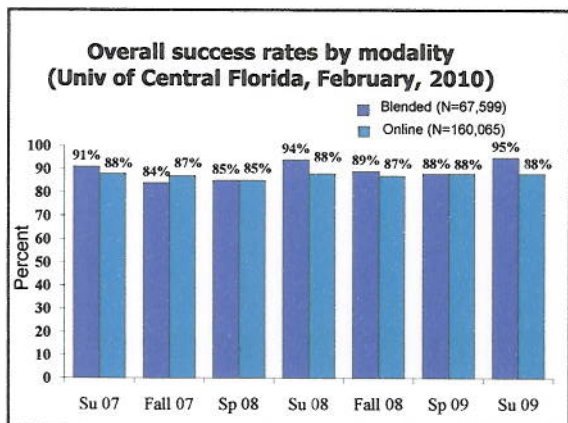
Categories of Blends

A. Enabling Blends	Enabling blends primarily focus on addressing issues of access and convenience; provide similar learning experiences.
B. Enhancing Blends	Enhancing blends allow for incremental changes to the pedagogy; additional or supplementary online resources.
C. Transforming Blends	Transforming blends are blends that allow for a radical transformation of the pedagogy and learner construction of knowledge.

Myth #9: There is one best model of blended.
AMA Special Report, Effectively Implementing a Blended Learning Approach
(Steven Shaw & Nicholas Igreri, 2006)

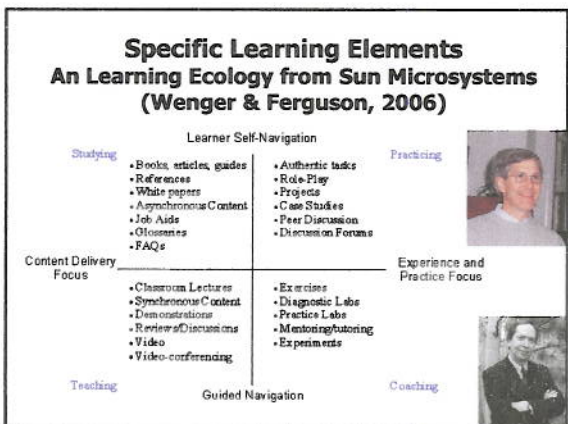
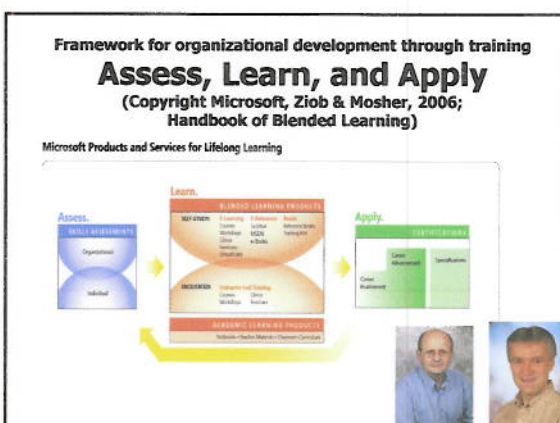
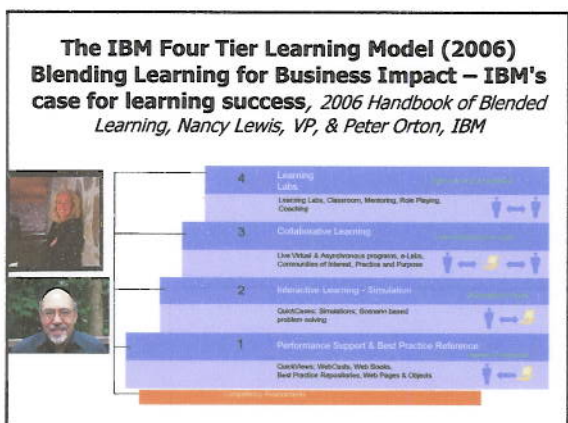


Source: American Management Association, AMA at Work



Institutional-level Blending (Brian Linquist, University of Phoenix)

- Completely online courses
- Residential F2F courses
- Blended Courses
 - *Local Model* = 5 week courses with first and last week F2F
 - *Distance Model* = 5 week courses with half first and half last week F2F (the last meeting of one course is coordinated to be back-to-back with the first meeting of the next 5 week course)



- ### Myth #10: The Benefits of blended learning are easy to justify and document.
- 1. Improved Pedagogy**
 - Interactive vs. Transmissive environments
 - Authenticity integration into work
 - 2. Increased Access/Flexibility**
 - Reduced seat time courses – UCF M courses
 - 3. Increased Cost Effectiveness**
 - Corporate: ROI – IBM 47:1, Avaya, Microsoft
 - Higher Ed: PEW Grants

Part II: 13 Fully Online and Blended Learning Problems and 33 Solutions



Problem Situation #1: Brief FTF Experiences

- Face-to-face (FTF) experiences are brief, one-week journeys. Need to need to build self-confidence, create social supports, teams, camaraderie, etc.

Ok, Million Dollar Question: What can you do in 1 week?



Blended Solution #1+. Sample Activities for Brief Meetings

1. Assign web buddies, email pals, critical friends based on interests, confidence, location, etc.
2. Ice breakers—paired introductions, corners.
3. Solve case in team competitions with awards.
4. Test technology in a lab.
5. Assign teams and exchange info for small teams using text messaging.
6. Library (digital and physical) scavenger hunt.
7. Do a podcast documenting the meeting.
8. Have everyone create a blog on the experience.
9. Open an e-portfolio for each student
10. Brainstorm how might use technology in program.

Problem Situation #2: Student Absenteeism

- Students miss class to attend a conference or event or a personal problem arises. Or students asks to watch the class a second time.

Download Class Sessions for 2010


Session	Start	End	Time	Room	Section	Section
05.01	05/01	05/01	10:00	100	001	001
05.02	05/02	05/02	10:00	100	002	002
05.03	05/03	05/03	10:00	100	003	003
05.04	05/04	05/04	10:00	100	004	004
05.05	05/05	05/05	10:00	100	005	005
05.06	05/06	05/06	10:00	100	006	006
05.07	05/07	05/07	10:00	100	007	007
05.08	05/08	05/08	10:00	100	008	008
05.09	05/09	05/09	10:00	100	009	009
05.10	05/10	05/10	10:00	100	010	010



Blended Solution #2. Post Courses in YouTube and iTunes (e.g., Berkeley)

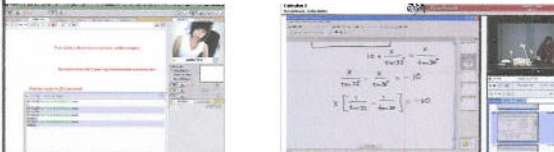


Blended Solution #3. Assign Online Shared Video (SciVee, Research Channel, doFlick, UC)



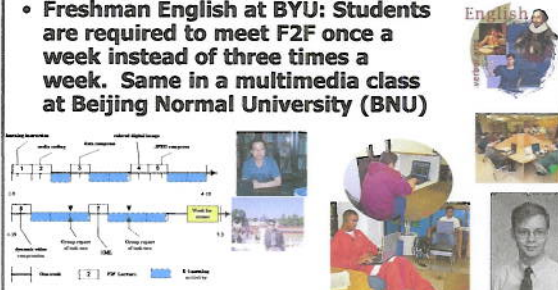
Problem Situation #3: Facilities and Time

- Limited facilities or rooms for teaching. Or students cannot make it to class every week or are working full time.



Blended Solution #4. Alternating F2F and Online Classes


- Freshman English at BYU: Students are required to meet F2F once a week instead of three times a week. Same in a multimedia class at Beijing Normal University (BNU)



Blended Solution #5. Streaming Class Video for Remote Students (e.g., Tegrity, Univ of Central Florida)

University of Central Florida Rapidly Deploys Tegrity Campus 2.0


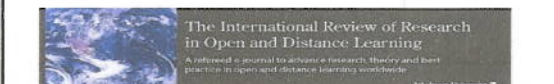
Within a single semester, more than 2,300 UCF students and 80 faculty members were using Tegrity Campus 2.0, making classes available to every student in the college, anytime.



Problem Situation #4: Web Supplemental Activities

- Fail to finish class discussion or other activity in time. Or desire to integrate the Web more in your face-to-face instruction or outside of class. Want to provide course resources and activities for students to explore.

Blended Solution #6. Using Open Access Journals (e.g., PLOS, JIOL, IRRODL)

Blended Solution #7.
Khan Academy (videos on math, bio, trig, chemistry, money and banking, economics, statistics, etc.; <http://www.khanacademy.org/>)

Blended Solution #8.
Online Portal Explorations

Blended Solution #9.
Virtual Worlds/Reality/MMOG
 (e.g., Second Life, There.com, Kaneva, etc. Harvard Law School, Charles & Rebecca Nesson)

Blended Solution #10. Space Portals
 (e.g., A New Motion Picture of the Universe, With Free Admission for Colleges Large and Small, By Ben Terris, Chronicle of HE, Feb 7, 2010)

From its mountaintop site of Cerro Panchón, in Chile (rendered above), the new telescope will look for dangerous asteroids and help researchers learn more about dark matter and dark energy. The Large Synoptic Survey Telescope has a combination of mirrors and three camera lenses that can capture the movements of billions of stars and galaxies.

Blended Solution #11. Open Ed Resources & OpenCourseWare (e.g., MIT OpenCourseWare)

Problem Situation #5: Student Learning Control

- Want to give students more control and ownership over their own learning. Want to foster student generative learning or being authors of their own knowledge.

Blended Solution #12. Student Developed Wikibooks (e.g., Web 2.0 and Emerging Learning Technologies (The WELT))

Problem Situation #6: Preparedness for the Profession

- Students are not prepared for their professions when they graduate. Or want to better apprentice students into their chosen profession. What to provide opportunities to work with practitioners, experts, mentors, and coaches in authentic learning environment.

Blended Solution #13. Online Professional Development (e.g., STARLINK, www.starlinktraining.org)

Blended Solution #14. Professional Videos (e.g., University Puts Researchers on YouTube to Stir Commercial Interest, Jill Laster, Chronicle of HE, Feb 5, 2010)

http://chronicle.com/blogPost/University-Puts-Researchers-on-21094/?id=at&utm_source=at&utm_medium=en

Blended Solution #15. Real World Problems (PBL online): Real-time Cases

Problem Situation #7: Collaborative Skill Deficit

- Students need collaboration and teamwork skills. Want to build virtual teaming skills in class activities or work with learners in other locales or situations.

Blended Solution #16. Working In Virtual Teams
(e.g., Collanos, Groove, SharePoint, Google Docs)

Blended Solution #17. Cross-Class Collab
(Indiana University and Open U of Malaysia; Univ of Illinois Tourism class)

Problem Situation #8: Student Reflections and Connections

- Students are not connecting content. They are just turning pages and going through the motions. Minimal student reflection is seen.

Blended Solution #18. Expert Video Reflections and Scaffolds online
(E-Reading First Ohio; reflect, share, and compare)

Blended Solution #19. Watch or Listen to Online Conferences

Problem Situation #9: Learning Community

- There is a preference for creating an online learning community in order to increase student learning and retention in the program. Such a community might be in a single class or across a series of classes.

Blended Solution #20. Create an Online Community in Ning, Google Groups, or Yahoo Groups.

The image shows a Google search for 'Ning in Education' with several results. Below the search results, there are three screenshots of the Ning website interface, including a navigation menu, a list of groups, and a group profile page.

Problem Situation #10: Need to Visualize Content

- Content is highly visual in nature and difficult to simply discuss in class. Or students have a preference for visual learning.

The image contains three small images: a photograph of a classical building with columns, another photograph of a similar building, and a 3D architectural model of a building's floor plan.

Blended Solution #21. Simulations and Virtual Worlds Online (e.g., OpenSimulator http://opensimulator.org/wiki/Main_Page)

The image shows the OpenSimulator website on the left. To the right are three screenshots of virtual world environments: a dark, futuristic cityscape, a bright, open landscape with a large screen, and a colorful, whimsical world with floating balloons.

Blended Solution #22: Shared Online Video Demonstrations (e.g., Monkey See)

The image shows two screenshots of the Monkey See website. The left screenshot shows a video player with a man sitting at a desk. The right screenshot shows a video of a person cooking in a kitchen.

Blended Solution #23. Virtual Tours and Timelines (i.e., HyperHistory; <http://simile.mit.edu/timeline/>)

The image shows four screenshots of virtual tours and timelines. One shows a virtual tour of a building, another shows a timeline titled 'Gates through the', a third shows a virtual tour of a landscape, and the fourth shows a timeline titled 'JRR Tolkien's Oxford'.

Problem Situation #11: Need for Hands-On Learning

- To learn the material requires that students try it out in a lab or real-world situation. Or students prefer hands-on learning activities.

Blended Solution #24. Video Production

This block features a collage of YouTube video thumbnails and a snippet of a reflection paper. The reflection paper, titled 'Cool YouTube Video Creation: Reflection Paper' by Brad Franklin, Associate 2006, includes the text: 'For my final project, I wanted to do something more experiential. I had originally intended to visit Disneyland, but was unable to create an average 30'.

Blended Solution #25. Explore Virtual Worlds and Online Representations (UCLAs CVRLab, University of Virginia)

This block displays several screenshots of virtual worlds and online representations. On the left, there is a 3D architectural rendering of a classical building with columns. On the right, there are screenshots from a virtual world interface, including a 'UCA Cultural VR Lab' header and a 3D view of a virtual interior space.

Blended Solution #26. Educational Simulations (Medical Traumas from TD Magazine, August 2006)

This block shows screenshots of medical simulation software. The top image depicts two people in a virtual medical environment. Below it are smaller screenshots showing a virtual patient on a gurney and a person using a computer interface for the simulation.

Problem Situation #12: Preference for Auditory Learning

- The content is heavily verbal or words. Or students have a preference to listen to a lecture or hear an instructor deliver a lecture.

Blended Solution #27. Basic Acoustics of Musical Instruments 2005 MERLOT Classics Award

This block features a screenshot of a MERLOT course page titled 'Basic Acoustics of Musical Instruments'. The page includes text, images of musical instruments, and a portrait of a woman, likely the instructor or a student associated with the course.

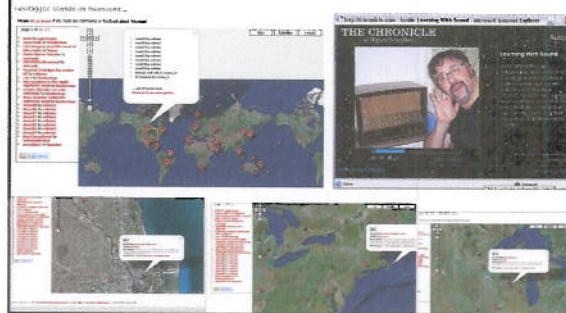
Blended Solution #28: Free Podcast Shows; Language Learning (ChinesePod—learn Mandarin)

This block displays screenshots of the ChinesePod website, which is used for language learning. It includes portraits of Ken Carroll and Jenny Zhu, who are likely the creators or hosts of the podcast shows mentioned in the solution.

**Blended Solution #29.
Self-Paced Language Programs:
JapanesePod, Arabic online, etc.**



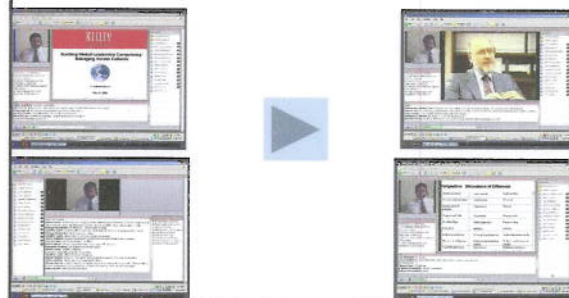
**Blended Solution #30. Indexing
Sounds in Cities with Google Maps**



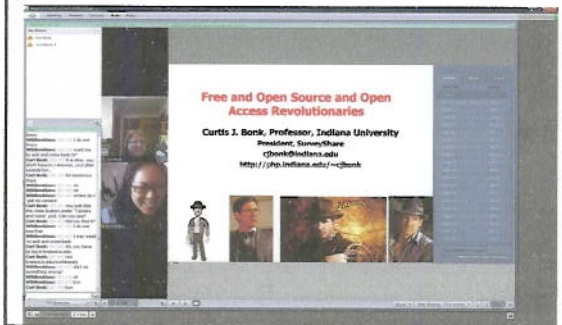
**Problem Situation #13:
Lack of Instructor Presence**

- Students need to see or hear from the instructor. They need a sense that the instructor is supporting their learning. They prefer face-to-face but are willing to try online.

**Blended Solution #31. Instructor
Presentation in Synchronous Sessions
(Breeze/Adobe Connect Pro, Elluminate, WebEx, Dim Dim)**



**Blended Solution #32. Archive
Synchronous Session**



**Blended Solution #33:
Teaching with Twitter**



Trends, Implications, and Challenges for Blended Learning

1. Faculty and students are more mobile.
2. Students more choices.
3. Student expectations rise.
4. Greater self-determined learning.
5. More corporate university partnerships.
6. Courses increasingly modular.
7. Less predefined schedules.
8. When teaching less clear; when learning less clear.



Again, this talk covered...

1. Definitions of blended learning
2. Advantages and disadvantages
3. Models of blended learning
4. Examples of blended learning
5. Predictions for blended learning
6. Challenges for blended learning



Questions and Comments

Note: Bonk papers and talks at:
<http://www.publicationshare.com/>
<http://www.trainingshare.com/>

